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Presented to the

Medical Professors

Of the University of Pennsylvania.

For the degree of

Doctor of Medicine.

By John S. O'Gara, of Charleston, S.C.

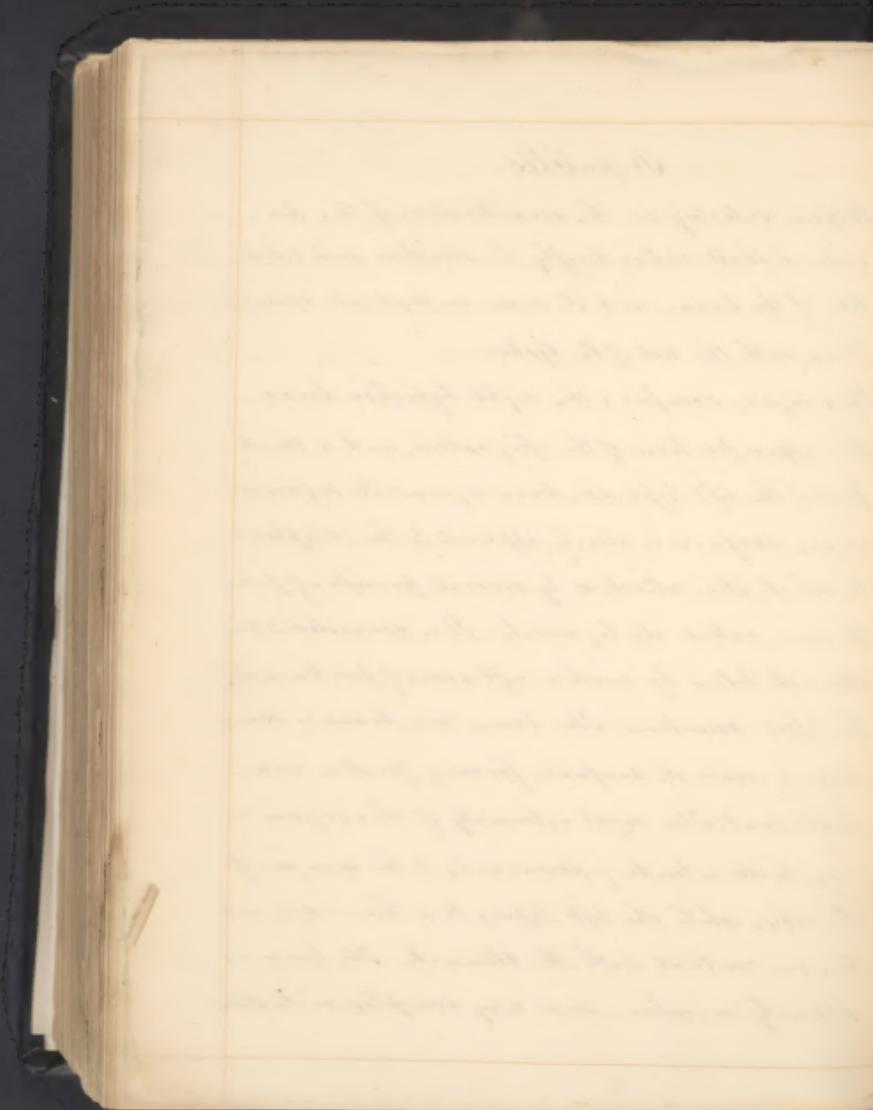
Philadelphia.

1827.

Hepatitis.

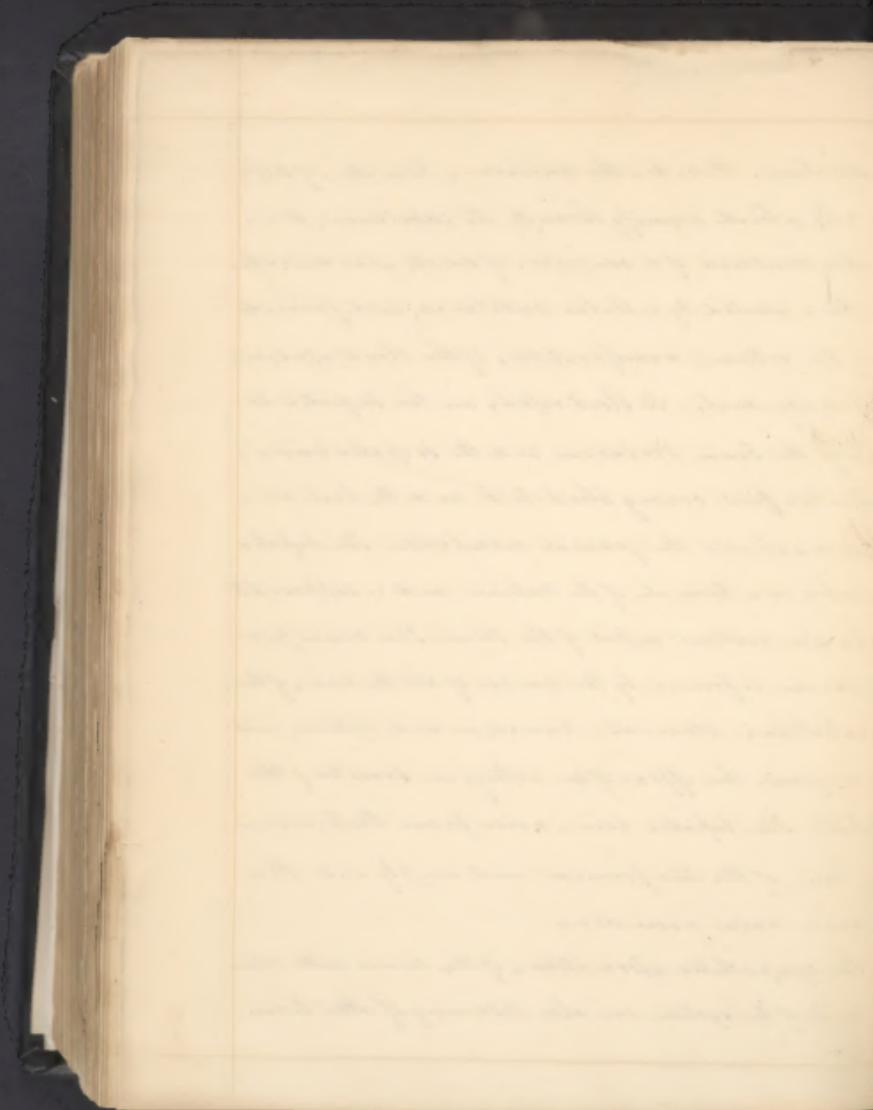
Before entering on the consideration of this disease, I shall notice briefly the structure and situation of the liver, and its more important connections with the rest of the system.

This organ occupies the right hypochondriac, the upper portion of the epigastric, and a small part of the left hypochondriac regions. Its superior convex surface is closely applied to the diaphragm to which it is attached by several processes of peritoneum called its ligaments. It is concealed by the stomach below by another covering of peritoneum, the lesser omentum. The same membrane is continued over its surface, forming for it a complete coat. The right extremity of this organ is very thick, extending downwards to the margin of the ribs; while the left tapers to a thin edge, and lies in contact with the thorax. The liver is extremely vascular, and very compact in its struc-



structure. Beside the numerous branches of arteries, which ramify through its substance, it is also composed of a congeries of small glandular bodies, invested by cellular substance, and formed by the ultimate ramifications of the blood-vessel and biliary ducts. Its blood-supply are the hepatic artery, the cava portae, and the hepatic veins - the two first conveying blood to it, and the last returning it into the general circulation. The hepatic artery is a branch of the celiac, and is supposed to be the nutrient vessel of the liver. The cava portae is formed by the union of all the veins of the intestines, stomach, pancreas and spleen, and performs the office of an artery, in secreting the bile. The hepatic vein, arises from the termination of the two former, and empty into the cava sava ascendens.

The sympathetic associations of the liver with other parts of the system, are also deserving of attention.



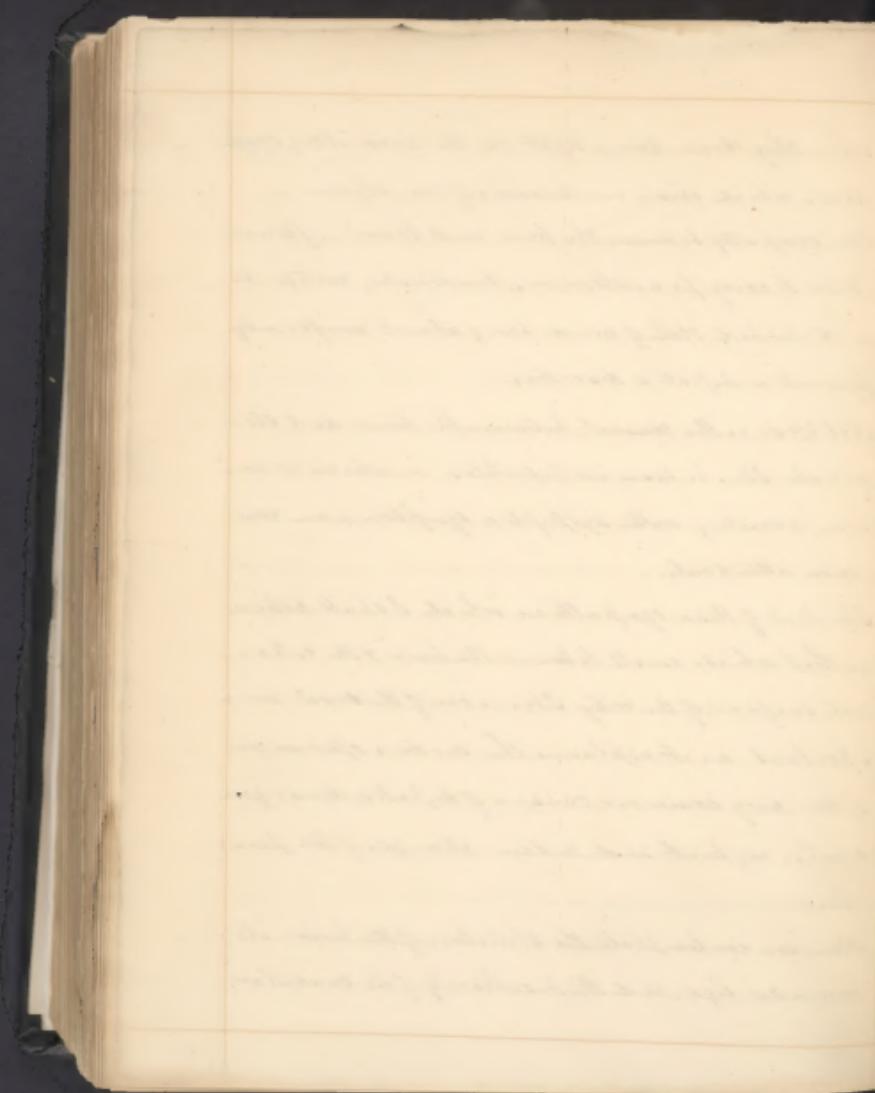
since they throw some light on the anomalies of symptoms, which arise in diseases of the organs.

The sympathy between the liver and brain is familiar to every practitioner, head-ache, vertigo & a disturbed state of mind being almost uniformly present in hepatic disorders.

Not less so, is the concert between the liver and skin, in such. This is seen in hepatitis, in which an exanthem, consisting with dyspeptic symptoms are common attendant.

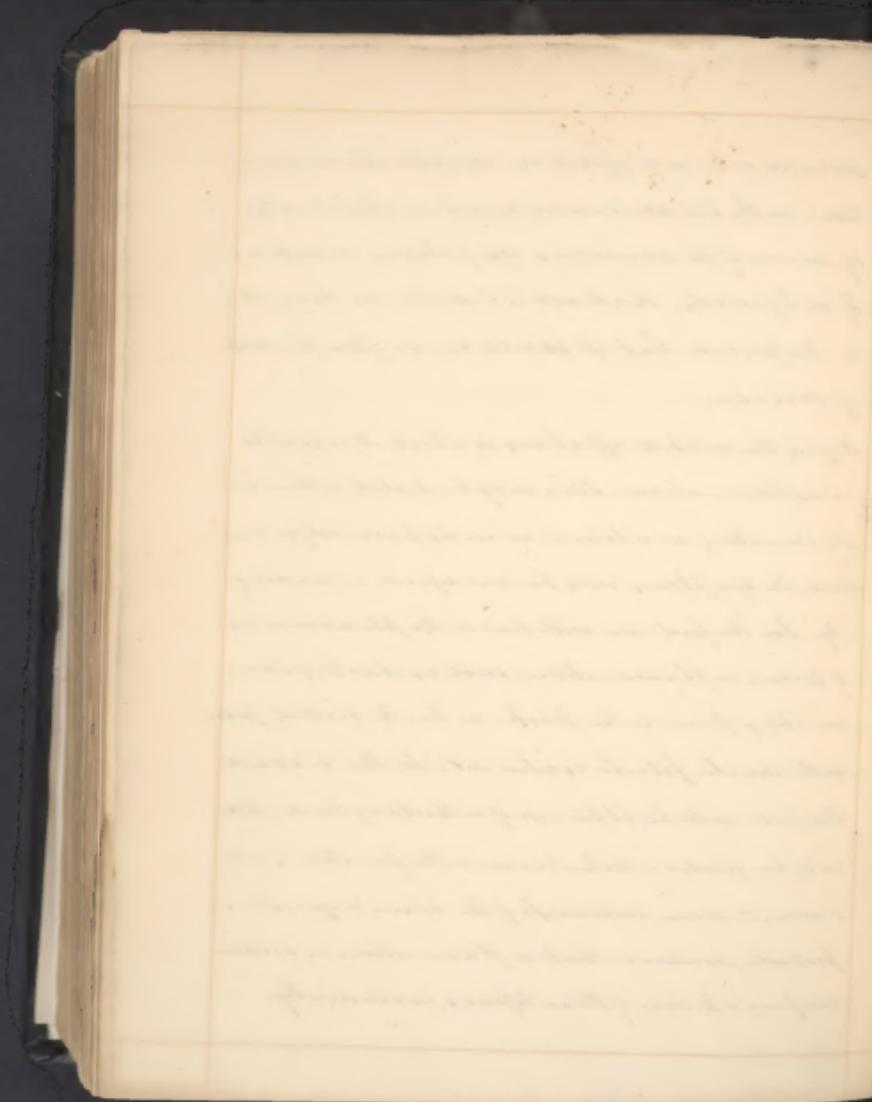
The last of these sympathies, which I shall notice, is that which exists between the liver & the external surface of the body. This is one of the most important, as it explains the modes of production of two very common causes of hepatic derangement, viz heat and sudden changes of temperature.

When we contemplate the structure of the liver; its immensity, size, and the peculiarity of its vascular



strangulation, and reflect on its influence conser-
tive, with the abdominal viscera & other parts,
by means of its numerous sympathies, as well as
by its ligaments, blood vessels, & ducts, we cannot
be surprised that it should be so often the seat
of disease.

Among the morbid affections to which it is liable
is inflammation. This may be seated either in
its investing membrane, or in its paracoliques;
and the symptom, will be modified according-
ly. In the first case will have the phenomena
of severe, inflammation, such as, darting lanci-
inating pain in the part, a hard, corded pulse
with much febrile excitement. In the second
the pain will be obtuse, or of a throbbing kind; there
will be greater disturbance in the function, of the
organ, & even pallor, & even pallor of the skin & eyes. It is
probable, however, that inflammation is seldom
confined to one of these types, exclusively.



Hepatitis has been divided by authors into acute and chronic. The former is characterized by its violence, and the rapidity of its progress; while the latter is more slow and insidious, and its approach is less alarming, as it generally comes on.

Acute hepatitis is brought on by the action of some of the phlogistic acids, such as arsenic, mercury, resins, &c., exposure to cold, violent exercise &c. But the most fruitful sources of the disease are a high state of the passions, and the intense irritation of spirituous liquors. Heat is a powerful stimulus to the secretory apparatus of the body; exciting them to insidious action, and subconsciously leaving them in a state of debility. The application of cold in the said circumstances, suddenly increasing, obstruction in the organs, and finally inflammation. Hence the frequent occurrence of this disease in winter.



as during the autumnal season, when the upper portion of the sky is followed by cold overcast days. Occult spirits operate in the same way as heat, producing at first slight oscillations, which are succeeded by a state of confusion and disorder. The weather, it is said, to be unstable, like a disease that has also, owing, no doubt, to their greater experience and ^{impartial} more tractable.

Acute hepatitis, usually commencing with rigors, succeeded by pain in the right hypochondrium, shooting to the shoulder; heat of skin and considerable pyrexia ensues, together with cough, oppressed respiration and difficulty of lying on the left side; the pulse is frequent and hard; the tongue white and dry, with yellowish coat; the skin pale, sometimes mottled with redness, transudating, the bowels are constipated, and the stool, when passed,



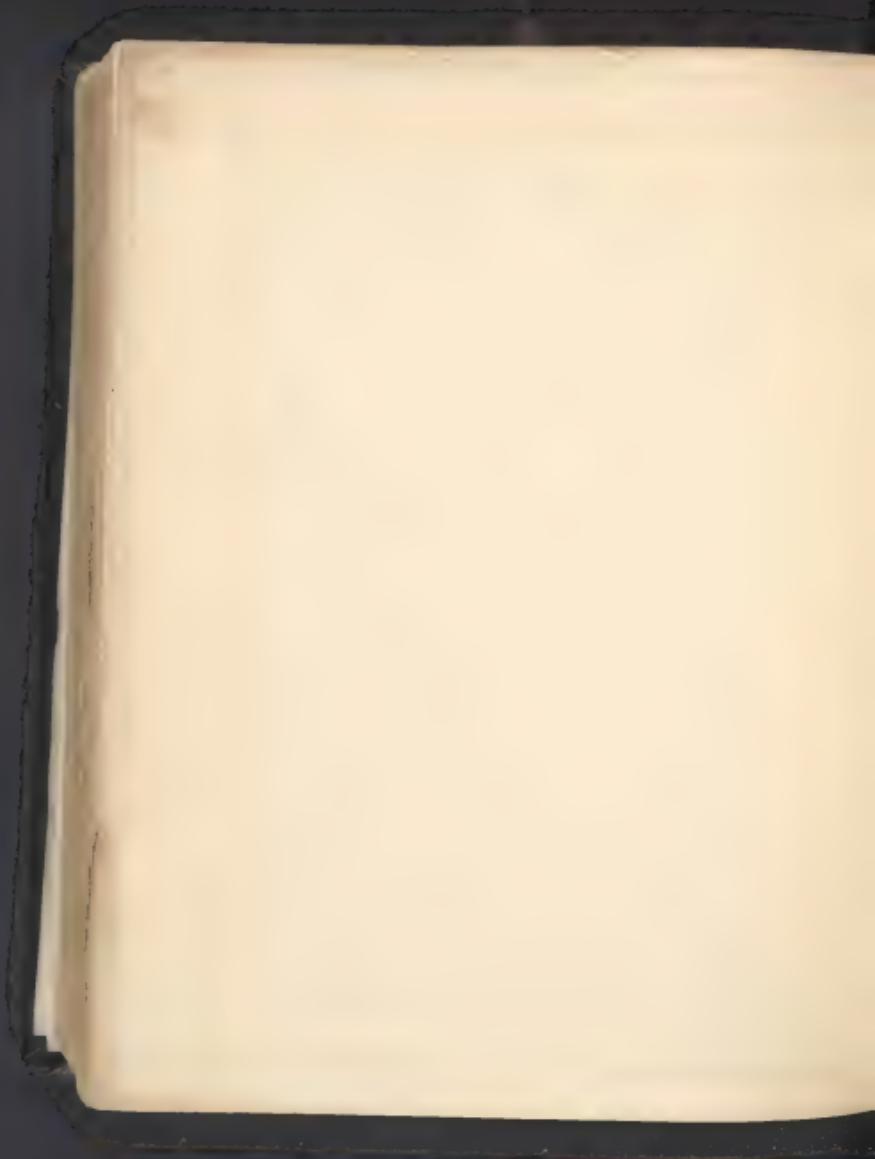
Show a deficiency of bile; the womb - high con-
tained and sparingly secreted. Throughout the
course, the spirits are much depressed.

These symptoms, vary in different persons; & the
part of the organ affected when the upper concave
surface, or the beginning, about half the dia-
phragm, is inflamed, the ear, l. p. nose, &c.
symptoms are more distressing, and it has
in some cases, been mistaken for pneumonia.
When on the contrary the concave portion of the
rest of the liver, the stomach is most disturbed,
giving rise to many of the symptoms of gastritis.
By a careful examination however, a suffi-
ciently clear diagnosis may be obtained. From
pneumonia it is distinguished, by the pain be-
ing lower down - the sides, and its being increased
by pressure under the false ribs. The tongue
too, comes, on the other side in pneumonia,
while the evacuation, indicates rather the



the arrangement of the Society's collection there seems
no particular place, until now. The position of the pris-
oners is to be seen in the shadowed, & others with the sun
shining on the skin will generally distinguish
them & visitors. It may easily be distinguished
at from 4 P.M. of the following day, with which
it has been done, however, I do not know. By the light
periods occurring out, the frequency of pulsus;
the permanence of pain, and by the patient
being able to be in a sitting posture.

This disease is most frequent by the side of water,
seen in shipwrecks. Its termination is slow,
which is attributed to external influences &
pernicious habits of life, with a return
of the suppuration in progress in the con-
cavities. At other times, the event is illus-
trated by some accident, either from the
skull, bones, or kidneys, or by a dislocation
from the nose or bronchial trachea.



Suppuration is a very common result of the disease; it is slow, & extends, then, well over the surface; it is announced by intense, &继而, violent, full, tension, heat, dry skin etc. A heavy dull aching pain in the part, resembling a tooth pain, occurs here, & indicates, as a rough streak, denotes the formation of pus.

The abscess often formed is variously described. If no abscess, take a pinion with contiguous parts, it bursts into the cavity of the abdomen, leaving an abscessal inflammation about, & soon a quickly forming abscess, or death. Sometimes, however, we have an abscess in the abdomen, & another, in the rectum, existing externally at the same time. After suppuration, only some portion of the intestine remains & the peristalsis still moves the stool. The last are the most frequent abscesses, for the rectum, and frequent enemas are need to have a bowel evacuated in this way. Enclosure after the rectum



matter, fat, &c, passing through the skin from without
inwards, & is brought up by coughing; or else it
is thrown into the cavity of the thorax, forming
empyema. The progress of this, case is very
unfavorable, tho' recoveries have taken place
under this circumstance.

From the history which has been given of these disease,
the indications of cure are obvious, viz
to subdue inflammation, and to rectify the bodily
secretions. Venesection is evidently required,
and must be used with freedom; separating it
as often as it is demanded by the patient, & the
state of his pulse. Special bleeding is scarcely of less
importance. Cupping-buckets are to be applied to
the sides, and may be continued, even when
the larva is no longer admissible. Having can-
celled several local bleedings to a sufficient
extent, a large bleed should next be given over
the part, and may be either succeeded,



or the blistered sponge can of the sponge with some
stimulating ointment. While we are employing these
means, purgatives, must not be omitted. One
of the most usual effects of inflammation, is to de-
crease the function of the organs in which it ob-
tains its seat. This is the case in hepaticis, purgatives,
therefore, and particularly the mercurial, from
the property which they possess of enlivening the body,
dry heat, and softening the hepatic secretion,
are invaluable remedies in this disease. Colomai
should be given in large doses, as also opopanax
or the balsam, quickened by the heat, in salts, or
jelly. In the trophical climate, mercury is genera-
ally used to produce a perspiration in the early stage
of this disease. But this practice, tho' perhaps
proper in those countries, is not admissible
here. As uniting to the foregoing measures, the
antiphlogistic regimen must be strictly enjoined.
The patient's food should consist of the least tho-



stimulating article, of which we then find a small
root, jelly, barley water, least water tea - the drink
should be of a certain, uniform, & temperate op-
tion water &c. By these means properly directed,
we will, scarcely exceed a soldier, the disease
that should it prove obstinate, we must then turn
to some very ^{old} a salagogue. It should be
given in the effects the mouth slightly, a pro-
fuse salivation is both disagreeable & un-
wholesome. For this purpose one or two grains
of calomel, or Nitro-siliceum of the blue full size
be given at bed-time. If we wish the disease
not allow to be more effectually induced, we may
direct a draught or two of the medicinal mix-
ture, to be rubbed into the inner part of the
nostrils every night & morning, as soon as we
be sensible of the same, & complained of by the pa-
tient, the medicine should be discontinued
so doing, it is reduced. By keeping him in



the state for some time, the bellyy secretion will be
found to improve, the complexion to display a
more healthy aspect, and in short, most of the
unpleasant symptoms will disappear. Irritation,
however, will occasionally occur, in which the
desire will visit all our members at times.
Call an Asphyxiation. When this takes place,
the misery must be laid aside and the mal
air should be invited to the surface by the former
treatment as soon as possible, so that as soon as the
stopper is off it should be opened, and never
be suffered to discharge its contents. The pa-
tient will ^{now} require a more vigorous diet, and
occasionally the seclusion and the same medicines
will be necessary.

Exercise will still be after the usual plan, a
short space, and requires it to repeat itself
twice, and for but a few minutes each time
inflammation. The firm site of the



which are very susceptibility, and sometimes even
desire to procreate for a time & to live without
giving the patient much trouble, as it is, or
it is supposed in the quality of their life, or when
they attend on the master and child.
These are even liable in which the disease is
supposed, however, found, completely disappears
without symptoms during the patient's life
time, undecreased ascent a few feet.

In most cases, however, a course of improvement
is observed, which is the effect of their
well pointing out the lower parts of the body
also. The patient becomes inveterate, and seems
to say exertion of body or mind he can never
do again, & is little perceptible
longer. The bowels are torpid & the
concretions above they stand, are com-
pletely, the urine is turbid depositing a white
or sediment; the other is light brown; the complexion



complexion pale and sallow, the pulse is frequent
and full, it is usually, in the condition of the
respiratory motions; dull, either from effusion
in the right side, the diaphragm, &c., con�nected
to the left; in other cases there is merely sense
of weariness & debility in the part. After this
the stool is soft, thin, & watery, the appetite & excre-
tions; the bowels are heavily loaded, and flatulence
from evolutions, and other signs of intes-
tinal action are there; after which the patient
soon becomes, loamy and languid, and
loses his relish for society. In the first stage he
knows the disease, occurs in a quiet & inactive
and may be full exerting below the waist, per-
petually. Not unfrequently the lungs at this per-
iod take an attack, either from the overwork
and debility, or from a molar
state of mind & action. There is then much
difficulty of breathing, when expiring, & consti-



In cases strongly marked by asthmas, &c., other
indicators, the lungs are more or less easily affected,
permeated & penetrated where there is but little
obstruction, &c.; the patient walks, stands or lies
down, with all the symptoms of disease, without
any other.

The causes of primary chronic hepatitis are the
same as those of the acute species, but nothing
more steady & surely. Of these by far the most
common in its operation, is the habitual use
of unfermented liquors. The injurious effects
of these, whether on the liver or a subject of
such common observation, that a name
of *Stomach & Liver complexion*, are consider-
ed as certain characteristics of the malady;
& his faltering speech and unsteady gait.

When the disease succeeds the acute species, it is
in most cases, to be ascribed to the neglect of
difficult excretions, or to the too early employ-



ment of bone, and structures.

Observe how the matter can vary, for any length of time, that a long-continued alteration in the organization of the bone. The most common and enlargement of the organ from a fracture. In such cases large sinuses form, & there is nothing more perfectly this, in some instances, as far as to the intestinal canal, and you can follow the case around without.

The bone is frequently found ossified in shape, without any visible division in the structure, & on examination you see a deposit of unossified matter, & you may see a remarkable case of this, sent to me by Collier, in which the bone weighed forty pounds.

This is of course a very different case from the present one, & it is not so, when it is calcified & you do not find any



• bed. This is a common effect of chronic inflammation in glands etc., and when the disease has been abated.

There are other alterations which have suffered in the bone structure, such as thickening of the form of the bone. These are tubercles, which occasionally occupy the upper portion of the bone, passing so far as to give it a very irregular shape.

My tubercles are also sometimes found attached to the bone, I call it deeply seated in its substance. It will be observed that they are not well developed; they are supported by thickets of a sort of small tufts of membrane. In some cases they become very numerous & large, containing a cavity & often my fibroid. Thomas in his work on the diseases of children speaks of them as being of great service to the body in their removal.

It is a difficult question whether this tumor is found on deposition that it is a t



led by S. said author to, that there was a day
at which they can be sure — we have had
it ever since the 1st of July. 3 — you
will hold me in secret, but we are
not all now — who, nor where, from whence
we first expect you to come, or the confor-
tation, but this is best to wait till you com-
e, so that all this shall not be known of
you, and be concealed — the day of
the meeting, & that the whole will be
closed, — we this — we are waiting for
you, so that we may utterly conceal you
that we could effect nothing more, if his ex-
istence of their existence.

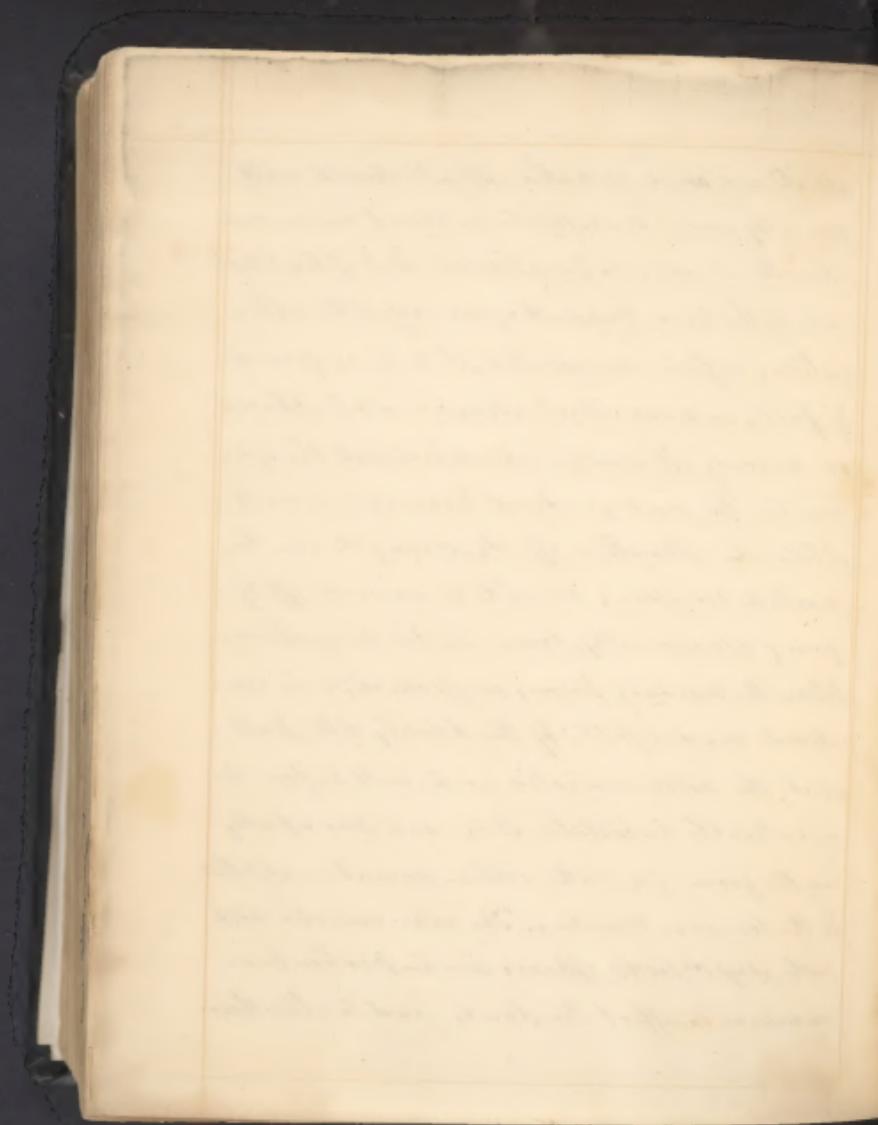
The scenes principally to be acted are in the
Garden of the Hotel de Ville, in the Tu-
illeries, & in the room above the first floor
of the house where the author of our
newspaper is now living, & by the end



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imperial emblem is large, with a place for
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depends on me to employ, and to let the
editor inform you with the odd day of the 11



alkali and some astringent. This treatment will generally prove successful in recent cases, and where the disease is functional. But if the structure of the liver has undergone any of the alterations before enumerated, it will generally fail, and our chief reliance is to be placed on mercury. It must be introduced into the system in the most gradual manner, so as to obtain its alterative effects. During its use the morbid secretion, should be carried off, by giving occasionally, some mild purgative. When the mercury proves ineffectual, or is rendered inadmissible by the debility of the patient, the nitro-muriatic acid will be found a valuable substitute. It is used principally in the form of a bath, either general or applied to the lower extremities. The nitro-muriatic acid bath, (says Dr. Scott,) appears in a particular manner to affect the glands, and to alter their



secretions; and on this power a great part of its value, in derangements of the liver, seems to depend. It sometimes, very suddenly increases, the secretion of bile; and this effect may be kept up for a length of time."

In addition to these active remedies, the diet of patient requires some attention. His food should be simple and plainly dressed; and he should be cautioned against exceeding the bounds of moderation, which he is apt to do, the appetite being often unimpaired. All crude, acrid, aromatic vegetables, pasty, soups, oily meat, and highly seasoned dishes, must be prohibited.

The warm bath, succeeded by friction, is a useful auxiliary in the cure of this disease. It relaxes the internal organs, and by keeping up a moderate action on the skin, promotes the biliary secretion. —

